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Preliminary remarks.

In selecting a subject as the basis of a dissertation, no small difficulty arises in the mind of the writer as to the one most suitable to such an undertaking; and also one upon which he is most likely to produce an essay worthy of attention. Therefore every candidate should duly consider the subject upon which he is about to offer his remarks, and ascertain by such reflections in the first place whether or not he be adequate to the task. —

In doing this I find none more worthy of attention; and likewise none upon which I find myself more equal to, than that accident so frequently occurring; which is known by the name of a Burn, to which in many cases surgical aid is essentially necessary. —

The treatment of Burns has not been particularly attended to by any surgical writer; except Mr. Keutish. and I believe those who had spoken of the effects of fire upon the human body previous to him had no just conception of the nature and treatment of such accidents. His having paid more particular attention to Burns in general is no doubt the reason why he has thrown more light upon the subject than any of his predecessors.

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Woud men in general confine their efforts to a few points, Science would make a more rapid progress, these might be less brilliancy attached to individuals; for it is by a division of labours, that perfection is to be attained in the Scientific as well as, in the Mechanic Arts. And were we truly to appreciate the matter we should be convinced that there is more credit in elucidating one uncertain point in the practice of Medicine or Surgery; than in loading many clear ones, with a fog, which by the unexplained cannot be distinguished, and of which the bad is as likely to be chosen as the good; and thus would error become perpetual. - And I am sorry to add, that this is too frequently the case. -

Pardon this digression from the Subject.

Having heretofore observed that Mr Keutish appeared to have had the best notions concerning burns; it must not be inferred, that I would asport him; to be altogether free from error: far from it, for in some instances, he appears to carry his theory too far, and by that means has done more harm than good. -

In the Composition of the following sheets, I am not certain that any thing either new or interesting will be said, upon a Subject, which many Modern Surgeons, have bestowed considerable attention upon. -

However -

However as it is a duty incumbent upon every
 Candidate for a Medical-Degree; by a law of this
 honourable institution: I shall proceed upon the
 detail of my remarks, without saying as is generally
 if not always done by the writer; excuse my in-
 -adequacy - The short time allowed me in the pre-
 -paration of the following Sheet - My juvenile
 mind &c - with many other Sentences of the like,
 in all amounting to Self-praise, indirectly applied,
 which is disgusting to a mere reader. And I ask
 how does it appear to professors in the University
of Pennsylvania ? -

BURNS

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Burns. —

A Burn may be defined; an injury occasioned by the application of heat so far superior, to the natural temperature of the body; as not to be borne without the fibres, or organization of the part being hurt. —

Burns have been divided by writers, in many ways, but I shall not adopt their divisions in this essay; but speak of them as they are more or less influenced by the following five circumstances, viz. —
 1st The Intensity of Heat applied. 2nd The nature of the part affected. 3rd The nature and peculiarity of the body producing the injury. 4th The length of time it is kept in contact. 5th The extent of Surface. —

It is necessary that these should be particularly attended to; I lay them down as so many primary propositions, and they appear more or less in all Burns. There are some others such as Age &c. which however are of minor consequence. —

Dr. Thyspick has divided Burns into three grades; which I shall include under the first head that was noticed above; each influential circumstance related above will be distinctly spoken of — a few observations on the nature & peculiarity of the inflammation attending Burns.

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burns; and lastly the treatment that is most approved of. — 5

1st Intensity of heat applied. under this I include 1^o scalds or inflammations of the surface only. 2^o blisters are formed causing a separation of the cuticle under which serum is effused. — 3^o The complete death of the part forming an eschar like that which is produced by Caustics; this takes place when the heat has been intense; the two former from less degrees of it. When the part is entirely destroyed the patient does not feel great pain; after 3 or 4 days when the process of sloughing takes place, then the inflammation arising from the separation of the dead part from the living is great and the pain very distressing. —

In Confirmation of this, Dr. Physick relates a case of a boy, who fell into a kettle of boiling water in a Soap-Manufactory, and when interrogated concerning his feelings, he answered that he felt no pain; here the heat was kept applied so long as to destroy all sensations. In these cases, the symptoms arising are very alarming; such as Colours of the extremities, Coma, and restlessness, which generally terminate fatal. — —

2. The —

2. The Nature of the part affected.

This has a very great influence over all Burns, and should be particularly attended to; Burns are most dangerous when seated upon the head, and over large joints, in the former ~~they~~ sometimes occasion inflammation of the dura-mater and thus disturbing the functions of the brain; produce violent symptoms as pain, Delirium, Coma, Syncope and not infrequently death. And in the latter Hectic fever, with all its horrors, arise and the life of the patient is so much endangered as to render Amputation indispensably necessary for his recovery. While, on the contrary, when seated upon the trunk of the body, or either of the extremities, such symptoms very seldom, if ever, occur (all other circumstances being alike); and the cure, at the same time, is more easily accomplished. —

3. The Nature and peculiarity of the body producing the injury. — Under this head comes Scalds, which are of the nature of Burns, except in the body that produces the injury; Scalds are not so alarming as injuries produced by many other substances, for this obvious reason, that fluids are
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as Metals, and some other hard substances. -

Heated Metals cause very serious Burns in their termination, or after a time which at first appeared of no consequence; for frequently the skin and muscles slough off and leave the bones bare; hectic fever ensues, and life is destroyed. -

Burns occurring in the different Manufactories of Europe, wherein some poisonous Metal is concerned, such as Arsenic and the like are most undoubtedly more dangerous in their tendency than Burns occasioned by a common Metal heated to the same degree: however such Burns rarely if ever occur in the United States therefore they do not demand our immediate attention. -

Burns from explosions of Gun-powder are not infrequently productive of serious consequences, in such cases most commonly the grains of powder are forced into the surface of the injury which must necessarily produce some degree of irritation; they are advised in all cases to be extracted: but this would be a very injudicious practice for certainly if the particles were numerous the irritation produced by an attempt to extract them would far exceed that of their being left in the part. -
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therefore they should only be extracted when seated ⁹
upon the face and hands, in which place they would
tend to produce deformity, and even in this case
they are frequently brought away with the dress-
ings, so that it is hardly if ever necessary to follow
the advice of the older Surgeons, unless it can be
done with very little force.

4th The length of time it is kept in Contact.
This materially influences the nature of Burns,
for instance; bodies possessing an intense degree
of heat, if not kept long in Contact; do not cause
Burns of so alarming a nature as degrees of
heat somewhat inferior kept applied for a con-
siderable length of time. This I assume as a
fact, and it has I believe been fully established
by the Observations of many Surgeons.

5th The extent of Surface.

It is particularly
worthy of remark that the danger arising
from the effects of fire is more proportionate
to the extent of the injury than the depth.

As a Burn that is so violent as to kill the part
immediately may not be in the least dangerous
if not extensive; while a Burn that is not deep,
but ^{very} extensive may prove mortal.

This circumstance Dr. Physick makes parti-
cular mention of, in his course of invaluable
lectures.

The first of these is the fact that the
 human mind is not a tabula rasa, but
 is filled with ideas and impressions
 from birth. This is the basis of all
 knowledge and learning. The second
 is the fact that the human mind is
 not a passive receiver of information,
 but an active processor of it. This
 is the basis of all reasoning and
 judgment. The third is the fact that
 the human mind is not a single entity,
 but a complex system of many parts.
 This is the basis of all psychology and
 philosophy. The fourth is the fact that
 the human mind is not a static entity,
 but a dynamic one that changes over
 time. This is the basis of all history and
 sociology. The fifth is the fact that
 the human mind is not a purely
 rational entity, but one that is also
 influenced by emotions and feelings.
 This is the basis of all art and literature.
 The sixth is the fact that the human
 mind is not a purely individual entity,
 but one that is also influenced by
 society and culture. This is the basis
 of all anthropology and linguistics.
 The seventh is the fact that the human
 mind is not a purely physical entity,
 but one that is also influenced by
 spiritual and religious beliefs. This is
 the basis of all religion and metaphysics.
 The eighth is the fact that the human
 mind is not a purely mortal entity,
 but one that is also influenced by
 the possibility of an afterlife. This is
 the basis of all theology and eschatology.
 The ninth is the fact that the human
 mind is not a purely finite entity,
 but one that is also influenced by
 the possibility of infinity. This is the
 basis of all mathematics and science.
 The tenth is the fact that the human
 mind is not a purely isolated entity,
 but one that is also influenced by
 the rest of the universe. This is the
 basis of all cosmology and astronomy.
 The eleventh is the fact that the human
 mind is not a purely abstract entity,
 but one that is also influenced by
 the concrete world. This is the basis
 of all practical philosophy and ethics.
 The twelfth is the fact that the human
 mind is not a purely eternal entity,
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 the passage of time. This is the basis
 of all metaphysics and ontology.
 The thirteenth is the fact that the human
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 The fourteenth is the fact that the human
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 The fifteenth is the fact that the human
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 change and development. This is the
 basis of all evolutionary biology and
 psychology.

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Burns, affect old people more than young. tho' 9
at times they prove fatal at all ages; they are
very dangerous, in persons, of dropsical habits,
owing to their ^{great} tendency to mortification; also
in persons, whose constitutions have suffered
much from previous, or existing ^{diseases}, as scrophulous.

To conclude these remarks on the Na-
-ture of Burns, it must be observed, that the dan-
-ger is to be rated according as a greater or less
number of the circumstances, before mentioned
are present at the time of the injury. —

of the Nature of Inflammation from Burns.

That the inflammation from Burns is
different from all other inflammation, I infer from
the following facts.

1st The pain is entirely different from that
attending the other kind; it being of a burning
nature and infinitely more distressing to the
patient who suffers it. —

2^d It may be infer'd from its having no
disposition to resolve; and its having or caus-
-ing ulceration of the parts underneath which
throw up fungous granulations and ~~which~~
are very hard to suppress. —

3^d The Cicatrices formed by ulcers resulting
from Burns, have a greater disposition to contract
than other inflammation and causing thereby —
o those from —

a greater deformity of the part. -

4th It is ~~renders~~ evident from the mode of cure being entirely different, as Stimulants in inflammation from Burns, being used with the effect of producing a cure; while the Antiphlogistic plan is pursued in other inflammation with success; And where either Method of treatment reversed it would prove highly injurious, and ultimately very dangerous. -

5th It may be inferred from the inflammation in Burns, taking place instantaneously; while that from other Causes, as Cold &c, does not, for in many instances a considerable time elapses.

6th I infer it from the cause itself being totally different; for certainly it will not be said that there is any resemblance between heat and Cold or Mechanical violence. -

7th And lastly, ^{renders probable, perhaps} it is ~~to be~~; from the circulation in inflammation from Burns being slower while that otherwise induced is accelerated.

This is my own opinion, I would not assert tho, that the circulation in any inflamed part is slower because I do not think that it can be satisfactorily proved; but merely mention ~~that~~ it is ^{this, in} order to explain the ~~the~~ action of Stimulants.

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of stimulants in producing a cure; cannot be ¹¹
explained neither will it admit of any problemat-
ical reasoning. —

Let it not be understood that I mean in all
degrees of heat that this is applicable to; far from
it: but only in such as are of a higher degree, and
go to derange the organization of the part in some
measure. —

I might go on, and swell this essay far beyond
the limits which I had intended, and give much
reasoning in proof of the difference between
the two instantiations; but this I deem sufficient.

The seventh and last fact (if it be one) alone,
in my mind; goes to substantiate it sufficiently,
were I destitute of all others. —

Treatment of Burns. The treat-
ment of Burns, comparably resolves itself into two
kinds; viz. Constitutional and local. —

The former plan of treating Burns was
founded upon principles, which seemed applicable
to cases of inflammation, ⁱⁿ general; it was most
commonly Antiphlogistic and even copious
bleeding from the arm was not infrequently
practised and it appears to me from what
I have seen in books upon the Subject;
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that cold and hot, irritating and soothing, 12
Astringent and emollient Applications, have all
been outwardly employed, in cases of Burns with-
out much discrimination: and in many Cases
to the no small injury of the patient.

The plan of treating Burns has been
so various, and such a multiplicity of applications
recommended by the different writers upon it, ^{has led to} next
to an impossibility to give a precise and regular
Account of it. Therefore, I shall place my rem-
edies and ~~remedies~~ remarks as they occur to me;
not pursuing any Methodical Arrangement.

If the heat applied to a part induces inflame-
-ation of Surface only; without incisions or the
complete death of it, the remedies to be employed
are the following: Cold water, or rather Ice if
it can be procured; the this application was not
first brought into use by Mr. Earle (it having
been long used before he published upon the
Subject), yet from his having more particularly
recommended it, and also from his exclusively
advising the use of it, he has, certainly, a Consi-
-derable Claim to our praise.

He has brought forward several Cases of extensive
and dangerous Burns, in which it was employed
with the happiest effects; he observes that if the
part is so situated as to be plunged into the

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The cold-water, it should be done. If not, says 13
dipped in it should be applied over the whole sur-
face and renewed as often as it acquires warmth
from the part. It must be continued as long as
heat and pain remain, which in many cases
is for a considerable length of time. —

If it should produce trembling and chilliness,
he advises it to be discontinued, and resort to other
remedies; but these effects, I believe, continues, he,
seldom occurs. —

Another remedy, very highly recommended
in Burns, and which I believe to be more effica-
cious than the one last described, is the appli-
cation of Vinegar, so much recommended by
Mr. Cleghorn. It should be continued, says this
gentleman, till the pain is abated and the red-
ness somewhat lessened, taking great care, in
cold weather, to warm it a little. The part in-
jured may be either thrust into it, or says, may
be wet and applied in the same manner as
recommended when speaking of cold-water. —

After this, I might mention Sulphuric Acid:
it has been recommended as a substitute for
Vinegar, but should never, I believe, be used where
other ~~the~~ remedies can be had accept to.

In reading Mr. B. Bell some time since,
I observed that he recommended plunging the

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the injured part into boiling water suddenly, ¹⁴
to procure ease as he supposes it would; but this
is a recommendation highly dangerous and not
likely to be imitated; at least not at this advan-
ced period of Medical Science. —

In some cases emollients have
afforded immediate relief; but, in general, astrin-
gent applications are best. Such as brandy or
alcohol; the part should be immersed if convenient,
if not old linen rags wet in the liquid should
be kept constantly on the burnt surface;
Saturine solutions, as that of Goulard's extract
and Saccharum Saturni, have been much spo-
ken of; also a strong solution of Alum, but if
excoriation of surface is present, all kinds of lead
applications should be avoided for reasons obvious,
which shall be more particularly spoken of in
another place; a strong solution of Alum is pro-
bably the best Astringent we are acquainted
with; beside these as remedies employed in
Burns are used by the common people; Scraped-
potatoes, Turnips, Molasses, and moist & cold
earth: This last, I conceive, might be efficacious,
supplying, in some measure, the action of Ice
or Cold, in any shape. —

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What has been said on the Treatment of Burns is applicable to the first stage or that which takes place before Blisters arise; but is of small consequence in Burns of any considerable extent. —

If inflammatory Symptoms should run high, evacuating remedies should be had recourse to, such as blood-letting, purging, or rather injections; for this reason, that purges weaken the patient more; and it is also very inconvenient to those labouring under a Burn of some extent to be getting up and going to stool. —

Blistering should be employed, low diet, & rest, but if on the contrary the inflammatory Symptoms are inconsiderable and there should be fever and great weakness from imitation; prescribe Land-anum, wine- whey, nourishing diet, Cordials, Bark, Pisser, &c. these last are constitutional remedies & to say a great deal in a few words, the Constitutional treatment must be accommodated to the state of the System, and like it vary considerably. —

Where the burnt part is, from the first, attended with blisters upon the Surface, or where more or less destroyed by the Calorific Action, cooling emollient applications were formerly thought as most effectual, and a Liniment composed of equal parts of Linen-water and Linseed-oil — joined

gained the greatest celebrity, and even at this 16
day it is much used, and I believe it is appli-
-cable to certain Burns; It should be put on
when used with a camel-hair brush for the
application and removal of the slightest def-
-sings, often give pain and increase irritation
considerably. Beware, as I have said before,
of any lead applications, for the most Super-
-ficial observer will perceive that this is a
very dangerous and highly precarious practice,
for it would (if continued any considerable
time) be taken up by the absorbents and car-
-ried into the System, and a production of
Calicaz-pictoneus would be the consequence;
The same remarks are applicable to an Oint-
-ment, sometimes used, made of Stramonium
and lead, which should hardly if ever be em-
-ployed. —

The blisters that arise from Burns, says
a certain author, should never be opened till
after the inflammation has subsided; but this
is an error very palpable, for if the inflamma-
-tion should continue for a considerable length
of time, which in many instances is the
case, and the Serum ~~is~~ allowed to reme-
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remain in the sides, it would inevitably ¹⁷
produce a considerable ulceration of the parts
in Contact, so that it should always be evacuated
early. Small punctures, not large incisions, should
be made.

The remedies that have been spoken
of are but of small consequence when com-
pared to the ones now about to be recommended.
It is the plan of treatment by Mr. Keutish allu-
-ded to; the applications recommended and first
employed by this gentleman, are the following,
viz - Alcohol, the fluid hol. alk: Ether, Spirits of
Turpentine, then so employed as to prevent
spirit evaporation then I believe are the chief
he employed in Cases of Burns.

The injured surface to which these app-
-lications are to be made should be bathed two
or three times over with the rectified Spirits of
wine either simple or combined with Cam-
-phor or Spirits of Turpentine heated by stand-
-ing in hot water. The liniment Compound
of the common yellow-basilicon softened with
Spirits of turpentine is then to be spread upon
old linen rags and applied over the whole
of the injured surface. The yellow ointment
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Stops the pores of the cloth, impedes evaporation and thus confines the effect of the alcohol to the burnt surface. 18

The first dressings are to remain on four and twenty hours. Mr. Keitch thinks it of importance that the injured surface should be left uncovered as little as possible. It is therefore recommended to have plasters ready spread before removing the old ones, and these only to take off one piece at a time. —

It will seldom be necessary to repeat the application of alcohol a second time, or that of the turpentine either; but if it should be found necessary, it may be continued till suppuration has taken place. Oils, less stimulating or irritating remedies will be found best, as the ~~unguentum~~ *resinae flavae*, combined with oleum *Camphoratum*, instead of the turpentine, and if this should be found too irritating, you should employ the *Cera tumida lapidis calaminaris*; or the *unguentum Saturninum*, made weak.

Dr. Physick has a very high opinion of the Balsam and Spirits of turpentine, and remarks that in applying it care should be had that it be only upon the burnt surface; for if it should — touch —

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touch the sound parts violent inflammations ¹⁹
will ensue, and it is from this circumstance
of carelessness and inattention among physicians,
that they have supposed this remedy as injuring,
and he also says that when properly applied he
always found it effectual. This commendation
alone is sufficient to establish the great useful-
-ness of the remedy.

But there is a remedy which I would parti-
-cularly advise all practitioners to employ, and
which I think to be more important than the
Spirits of turpentine, that is the Lincture of
Cantharides, combined with the unguentum,
resine flavae, instead of the Turpentine. -

Whilst a student of Medicine, I have
had an opportunity of seeing many cases of
Burns, and several in which this remedy effected
a cure. It is applicable to all cases of Burns
where you would employ the Turpentine, but
from reasoning a priori, we should expect to find
suppression of Urine induced; but this I have
never known. It should not be made quite so
strong as that commonly prepared. -

The Sores formed by Burns, are, perhaps,
more disposed to form large granulations,
than any others, which rise considerably above -
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the surrounding skin, they should in this case, 20
be dressed with any moderately stimulating as-
tringent ointment, as the Basilicon combined
with red precipitate; and if the part will allow
of the application of a roller, the prepain will
be of immense service in keeping down the
granulations and rendering them more healthy.
Where this method fails, the sore should be gently
rubbed with the Argentum Nitratum. —

In cavities of separated eschars, and in the
furrows formed between sloughs, and the living
parts, Mr. Keutish introduces powdered Chalk.
When a plaster is applied, and in very tedious cases,
a poultice over the whole. —

Powdered Chalk is likewise to be employed
in repressing the growth of exuberant gran-
ulations before spoken of, and also to absorb the
redundant secretion. —

Burnt parts, which are contiguous, are
very apt to grow together in the progress of the
cure, as the fingers, toes, eyelids, and sides of the
Nostrils. In order to prevent this, the dressings
should always be kept between them, until
the cure is completely performed. —

In case the fingers are burnt, says
— Dr. Physick —

Dr. Phipps
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Minutes
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Dr. Physick, the dressings should be applied- 21
between them; they are then to be extended upon
a Splint; this is also applicable to ^{burns} on the
fore-arm or leg. —

Burns in the neck are frequently fol-
lowed by such a contraction of the cicatrix, that
the head becomes drawn to one side. This de-
formity may be repaired, tho it cannot always
be prevented by position. —

I have not discussed or descended very
minutely into the treatment of Burns: for
in all cases, the method of cure must vary
with the different existing circumstances,

With this, preceptors in Medicine, I take
my leave; wishing a continuation of your
health, happiness, and useful labours. —

Filiis.



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Wm. Thurston
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